

Figure 1

ATATTGCTGAGCTCAGGGAGTGAGGGCCCCACATTTGAGACAGTGAGCCCCAAGAAGAGG 60
 GATCCCTGCTCCAGCAGCTGCAAGGTGCAAGAAGAAGATCCCAGGGAGGAAATGTG 120
 M C
 CTGGAGACCCCTGTGTCGGTTCTCTGTCGGCTTTGGTCTATCTGTCTTATGTTCAAGCAGT 180
 M R P L C R P L M L N S Y L S Y V O A V 22
 GCCTATCCAGAAAGTCCAGGATGACACCAAAACCTCATCAAGACCATTGTCCACAGGAT 240
 P I O K V Q D D T K T L I K T I V T R I 42
 CAATGACATTTACACACGCGAGTCGGTATCCGCCAAGCAGAGGGTCACTGGCTTGGACTT 300
 N D I S H T O S V S A K Q R V T G L D F 62
 CATTCTGGGCTTACCCCATTTCTGAGTTTGTCCAAGATGGACGAGACTCTGGCAGTCTA 360
 I P G L H P I L S L S K M D Q T L A V Y 82
 TCAACAGGTCTCTCACCAGCTGCTTCCCAAAATGTGCTGCAGATAGCCAATGACCTGGA 420
 Q O V L T S L P S Q N V L Q I A N D L E 102
 GAATCTCCGAGACCTCTCTCATCTGCTGGCTTCTCCAAGAGCTGCTCCCTGCTCCAGAC 480
 N L R D L L H L L A F S K S C S L P Q T 122
 CAGTGGCTGCAGAAAGCAGAGACCTGGATGGCGTCTGGAAGCCTCACTCTACTCCAC 540
 S G L Q K P E S L D G V L E A S L Y S T 142
 AGAGGTGGTGGCTTTGAGCAGGCTGCAGGGCTCTCTGAGGACATTCTTCAACAGTTGGA 600
 E V V A L S R L Q G S L Q D I L Q O L D 162
 TGTTAGCCCTGAATGCTGAAGTTTCAAGGCCACCAGGCTCCCAAGATCATGTAGAGGG 660
 V S P E C * 167
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 TCATTTCTCTCCCTCTGTAGACCACCCATCCAAAGGCATGACTCCACAATGCTTGACTC 780
 AAGTTATCCACACAACCTTCATGAGCACAAGGAGGGGCCAGCCTGCAGAGGGGACTCTCAC 840
 CTAGTTCTTCAGCAAGTAGAGATAAGAGCCATCCCATCCCTCCATGTCCACCTGCTCC 900
 GGGTACATGTTCTCCGTGGGTACACGCTTCGCTGCGGCCCAGGAGAGGTGAGGTAGGGA 960
 TGGGTAGAGCCTTTGGGCTGTCTCAGAGTCTTTGGGAGCACCGTGAAGGCTGCATCCACA 1020
 CACAGCTGGAAACTCCCAAGCAGCAGCATGGAAGCACTTATTATTATTCTGCATTTC 1080
 TATTTTGGATGGATCTGAAGCAAGGCATCAGCTTTTTCAGGCTTTGGGGGTGAGCCAGGA 1140
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 GAAGGATCCGGAAGTGTCTCTGAATTACATATGTGTGGTAGGCTTTTCTGAAAGGGTGA 1500
 GGCATTTTCTTACCTCTGTGGCCACATAGTGTGGCTTTGTGAAAAGGACAAAGGAGTTGA 1560
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 AAGAAAAGGCTCCCTGGTGTAGATCTCCAAGGTTGTCCAGGTTGATCTCACAAATGCGTT 1740
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 AGTAGAACCTGTCTCCACCCATTCTGTGGGGACTTTTGTCCAGTGGGAATGAGAAAT 1860
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 GCCAGGCTGCCAGAATTGCCCTTCCGGGTGAGGATGAACAAAGGGGCTTGGGTTTTTCC 1980
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 GGACTAGAAGAGTTTGGATTTTAGAGTCTTTTCAGGCATAGGTATATTTGACTATATAT 2460
 AAAATGAGATATCTTGGGATGGGGCCCAAGTATAAATCATGAAGTTCATTATATTTTCAT 2520
 AATACCGTATAGACACTGCTTGAAGTGTAGTTTATACAGTGTTTTAAATAACGTTGTAT 2580
 GCATGAAGAGCTTTTACAGCATGAACCTGTCTACTCATGCCAGCACTCAAAAACCTTG 2640
 GGGTTTTGAGCAGTTTGGATCTTGGGTTTTCTGTAAAGAGATGGTTAGCTTATACCTAA 2700
 AACCATAATGGCAACAGGCTGCAGGACCACTGGATCCTCAGCCCTGAAGTGTGCCCT 2760
 TCCAGCCAGGTATACCTGTGGAGGTGAGCGGATCAGGTTTTCTGGTGCTAAGAGAGG 2820
 AGTTGAGGTAGATTTTGGAGGATCTGAGGGC 2882

Figure 2

---G--GTTG CAAGGCCCAA GAAGCCCA-- -TCCTGGGAA GGAAAATGCA	50
TTGGGGAACC CTGTG-CGGA TTCTTGTGGC TTTGGCCCTA TCTTTTCTAT	100
GTCCAAGCTG TGCCCATCCA AAAAGTCCAA GATGACACCA AAACCCTCAT	150
CAAGACAATT GTCACCAGGA TCAATGACAT TTCACACACG CAGTCAGTCT	200
CCTCCAAACA GAAAGTCACC GGTTTGGACT TCATTCTCTGG GCTCCACCCC	250
ATCCTGACCT TATCCAAGAT GGACCAGACA CTGGCAGTCT ACCAACAGAT	300
CCTCACCAGT ATGCCTTCCA GAAACGTGAT CCAAATATCC AACGACCTGG	350
AGAACCTCCG GGATCTTCTT CACGTGCTGG CCTTCTCTAA GAGCTGCCAC	400
TTGCCCTGGG CCAGTGGCCT GGAGACCTTG GACAGCCTGG GGGGTGTCCT	450
GGAAGCTTCA GGCTACTCCA CAGAGGTGGT GGCCCTGAGC AGGCTGCAGG	500
GGTCTCTGCA GGACATGCTG TGGCAGCTGG ACCTCAGCCC TGGGTGCTGA	550
GGCCTTGAAG GTCACTCTTC CTGCAAGGAC T-ACGTTAAG GGAAGGAACT	600
CTGGTTTCCA GGTATCTCCA GGATTGAAGA GCATTGCATG GACACCCCTT	650
ATCCAGGACT CTGTCAATTT CCCTGACTCC TCTAAGCCAC TCTTCCAAAG	700
G	701

Figure 4

Mouse	MCWRPLCRFL	WLWSYLSYVQ	AVPIQKVQDD	TKTLIKTIVT	RINDISHTQS	50
	* * *	* *				
Human	MHWGTLCGFL	WLWPYLFYVQ	AVPIQKVQDD	TKTLIKTIVT	RINDISHTQS	
Mouse	VSAKQRTVGL	DFIPGLHPIL	SLSKMDQTLA	VYQQVLTSLP	SQNVLQIAND	100
	*		-	-	* *	
Human	VSSKQKVTVGL	DFIPGLHPIL	TLISKMDQTLA	VYQQILTSMF	SRNVIQISND	
Mouse	LENLRDLLHL	LAFSKSCSLP	QTSGLQKPES	LDGVLEASLY	STEVVALSRL	150
	-	*	** ***-	*	*	
Human	LENLRDLLHV	LAFSKSCHLP	WASGLETLDS	LGGVLEASGY	STEVVALSRL	
Mouse	QGSIQDILQQ	LDVSPEC				167
	- *	- *				
Human	QGSIQDMLWQ	LDLSPGC				

Figure 5

1	Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr
16	Leu Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp
31	Thr Lys Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile
46	Ser His Thr Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp
61	Phe Ile Pro Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp
76	Gln Thr Leu Ala Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser
91	Gln Asn Val Leu Gln Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp
106	Leu Leu His Leu Leu Ala Phe Ser Lys Ser Cys Ser Leu Pro Gln
121	Thr Ser Gly Leu Gln Lys Pro Glu Ser Leu Asp Gly Val Leu Glu
136	Ala Ser Leu Tyr Ser Thr Glu Val Val Ala Leu Ser Arg Leu Gln
151	Gly Ser Leu Gln Asp Ile Leu Gln Gln Leu Asp Val Ser Pro Glu
166	Cys End

Figure 6

1 Met His Trp Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr
16 Leu Phe Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp
31 Thr Lys Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile
46 Ser His Thr Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp
61 Phe Ile Pro Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp
76 Gln Thr Leu Ala Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser
91 Arg Asn Val Ile Gln Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp
106 Leu Leu His Val Leu Ala Phe Ser Lys Ser Cys His Leu Pro Trp
121 Ala Ser Gly Leu Glu Thr Leu Asp Ser Leu Gly Gly Val Leu Glu
136 Ala Ser Gly Tyr Ser Thr Glu Val Val Ala Leu Ser Arg Leu Gln
151 Gly Ser Leu Gln Asp Met Leu Trp Gln Leu Asp Leu Ser Pro Gly
166 Cys End

Figure 7

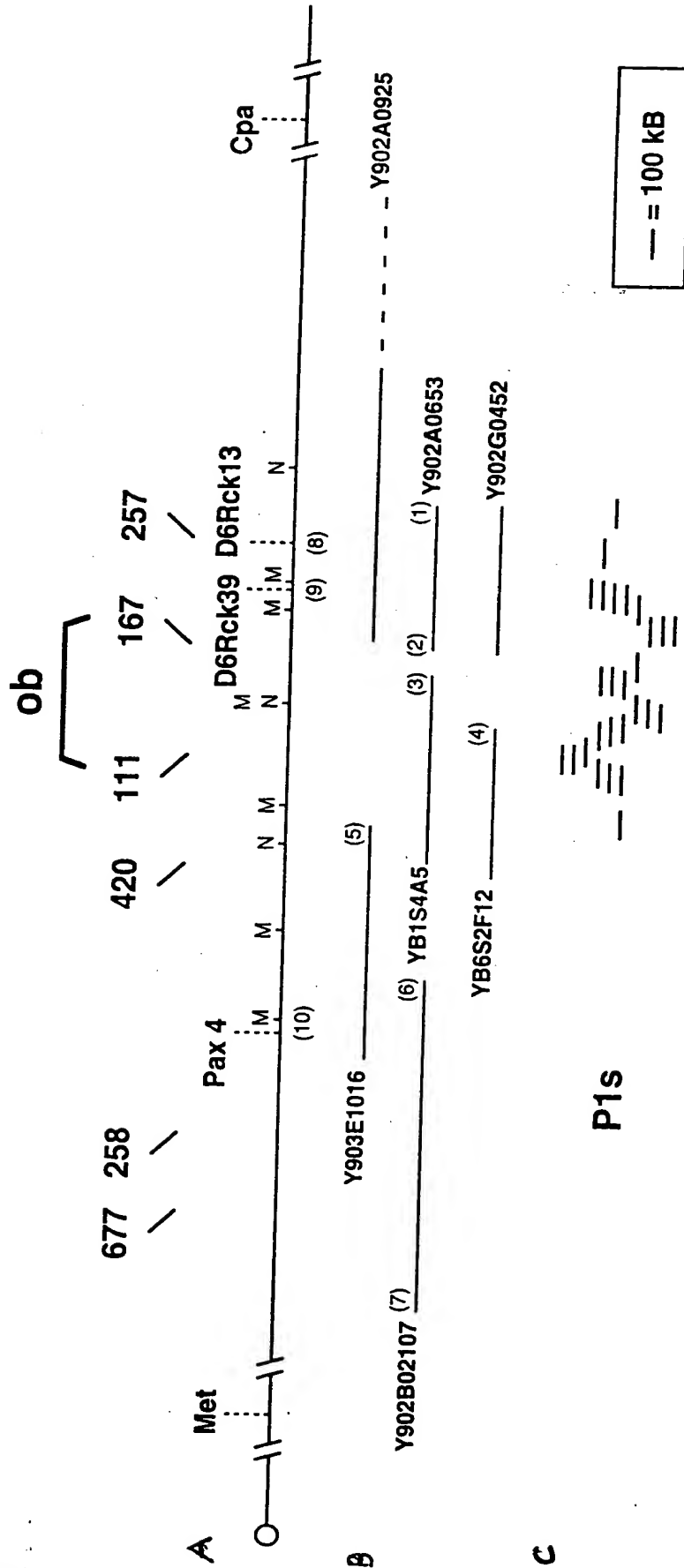
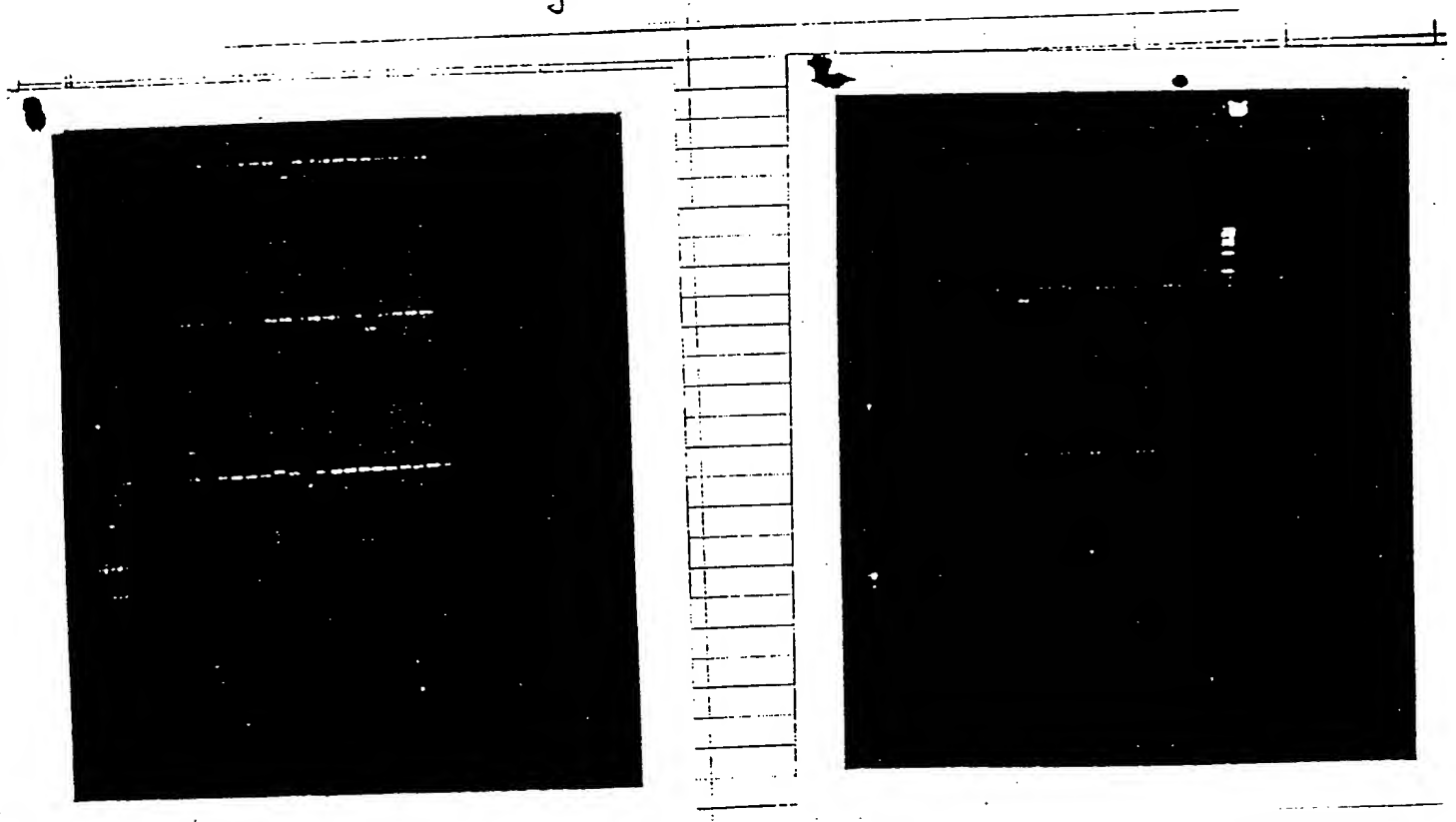


Figure 8



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Figure 9

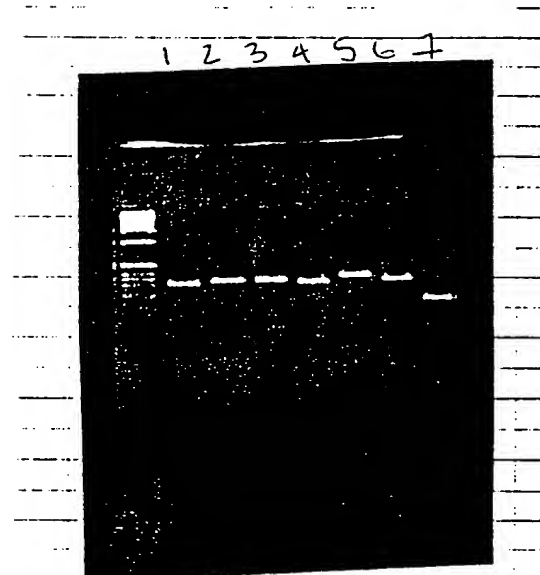


Figure 10

	+10	+20	+30	+40
1	<u>GTGCAAGAAG AAGAAGATC CAGGGCAGGA AAATGTGCTG GAGACCCCTG</u>			
	+10	+20	+30	+40
51	<u>TGTCGGGTCC NGTGGNTTTG GTCCTATCTG TCTTATGTNC AAGCAGTGCC</u>			
	+10	+20	+30	+40
101	<u>TATCCAGAAA GTCCAGGATG ACACCAAAAG CCTCATCAAG ACCATTGTCA</u>			
	+10	+20	+30	+40
151	<u>ATAGGTCTTT CAGGTCCTAC TGTGGTTTTC GGAGTAGTTC TGGTAACAGT</u>			
	+10	+20	+30	+40
	<u>NCAGGATCAC TGANATTTCA CACACG</u>			
	<u>NGTCCTAGTG ACTNTAAAGT GTGTGC</u>			

Figure 11A

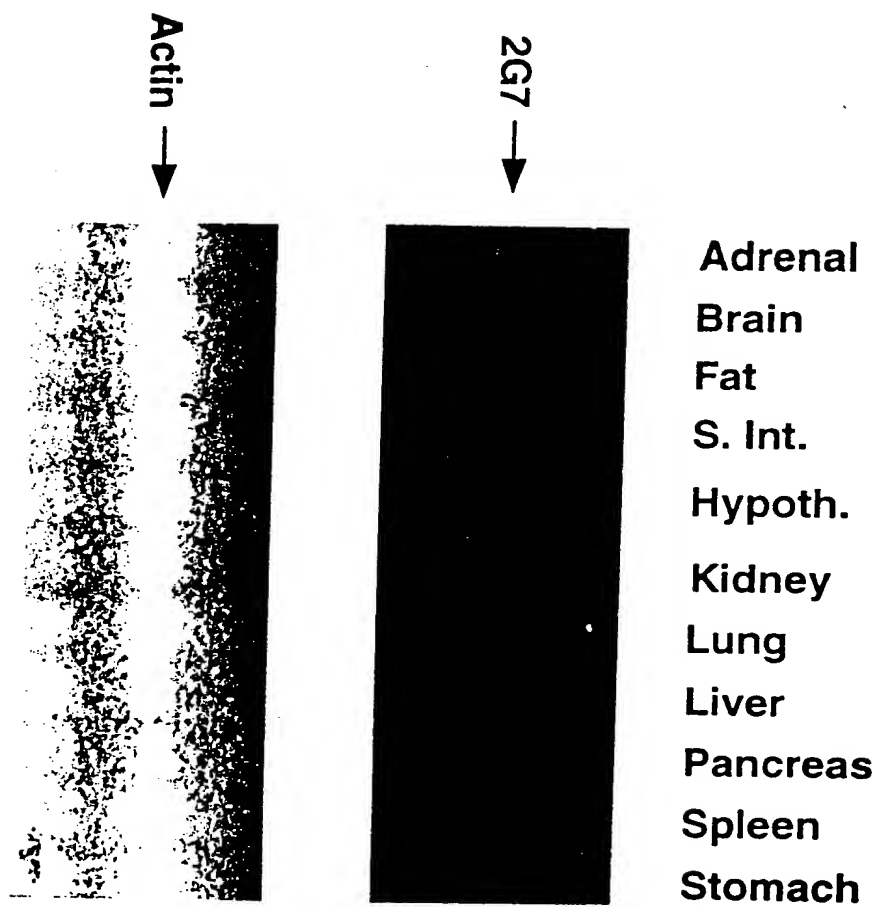


Figure 11B

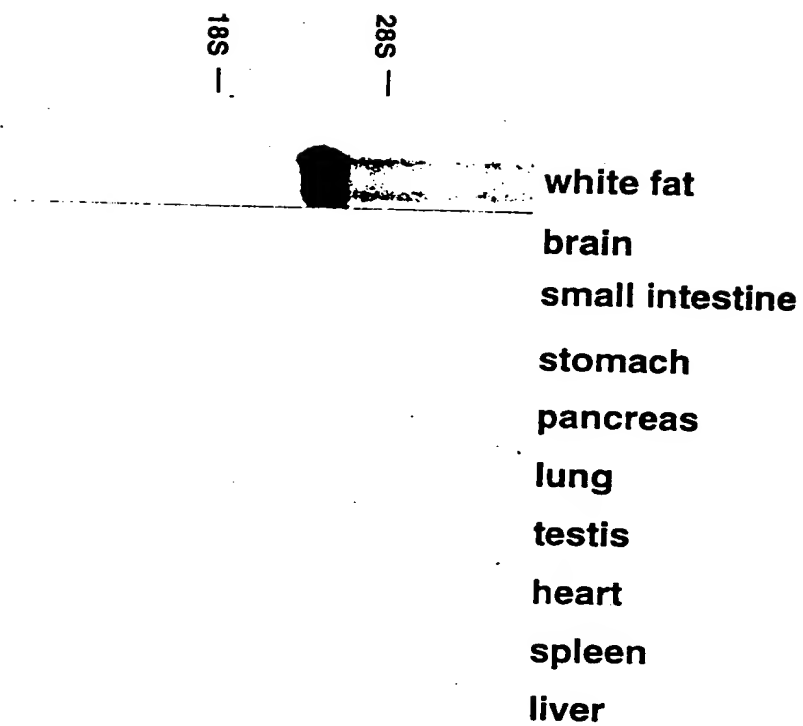


Figure 12A

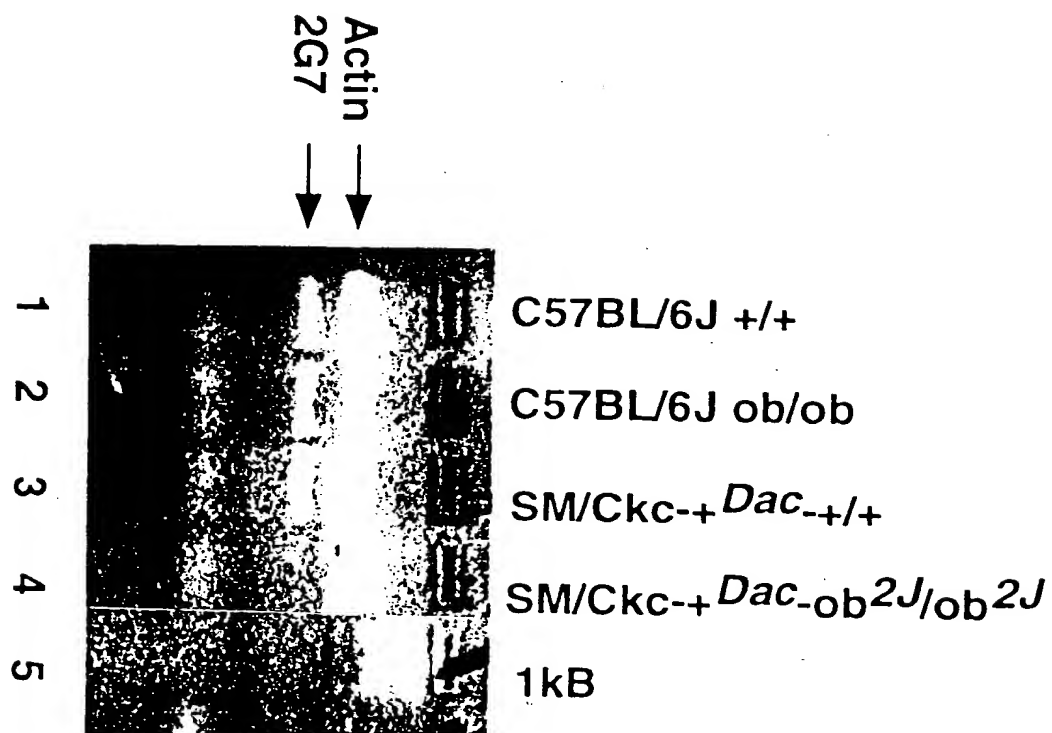
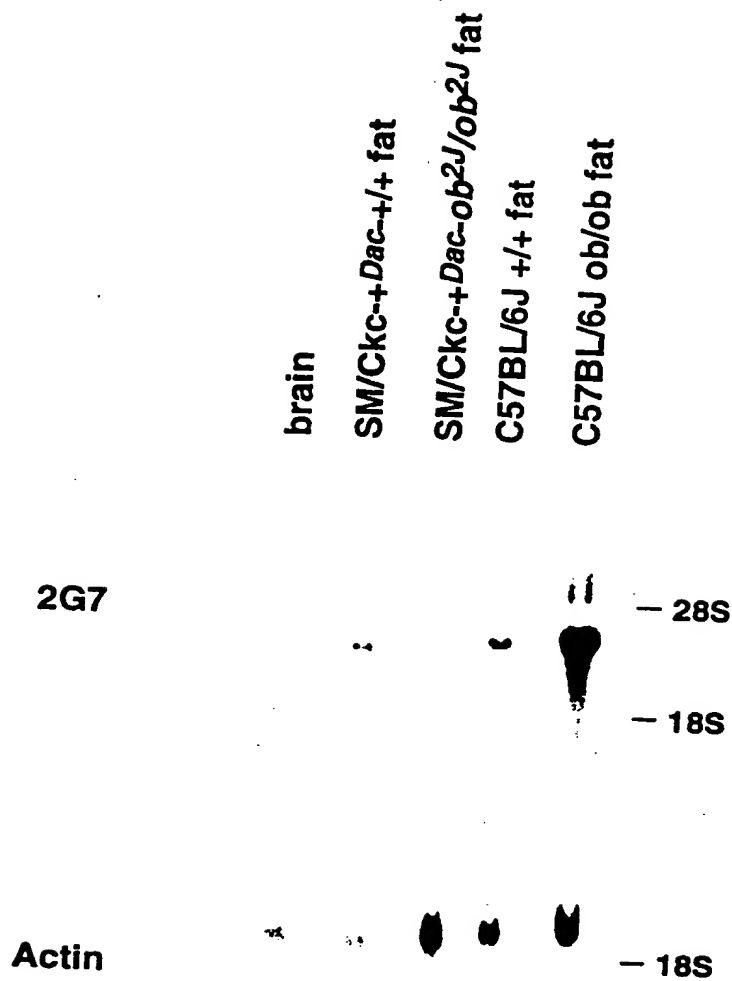


Figure 12 B



ap2

Figure 14

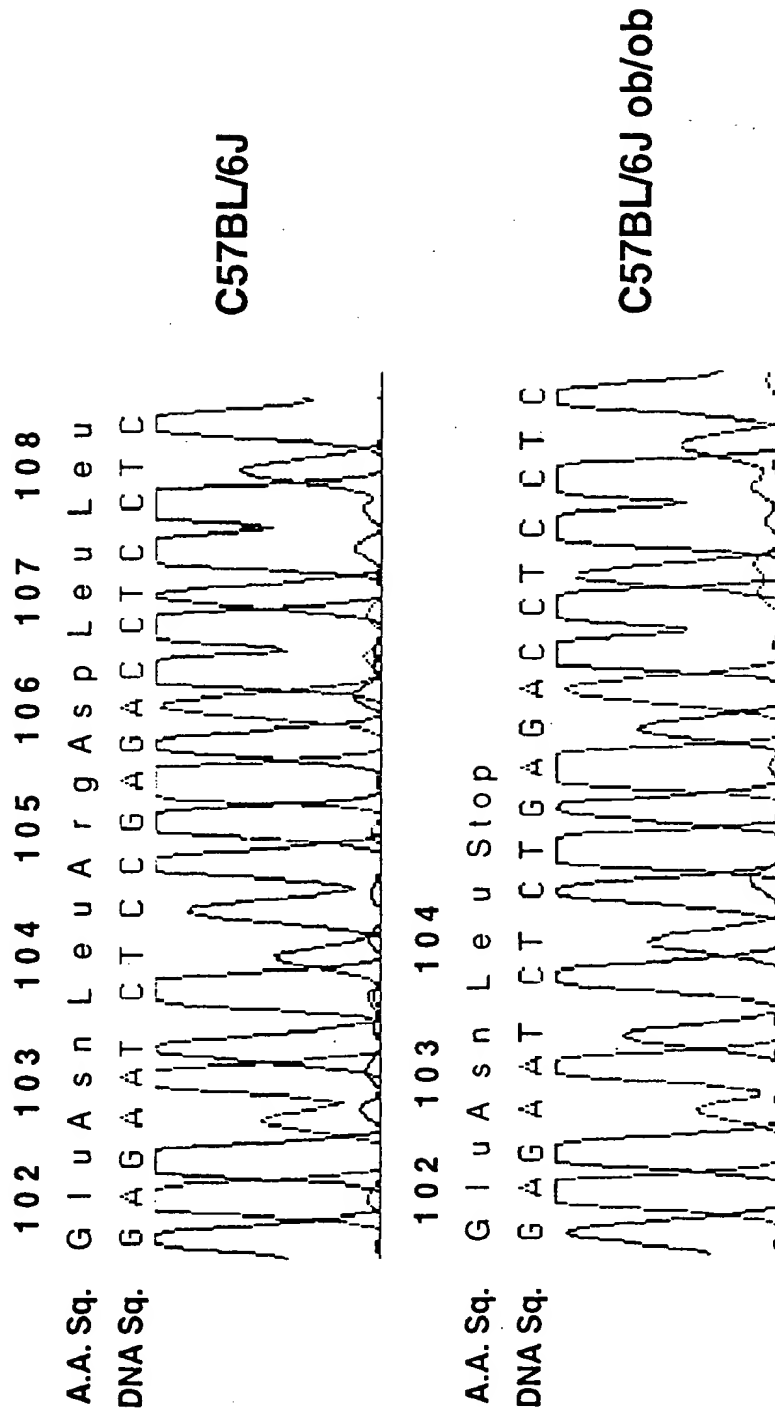


Figure 15A

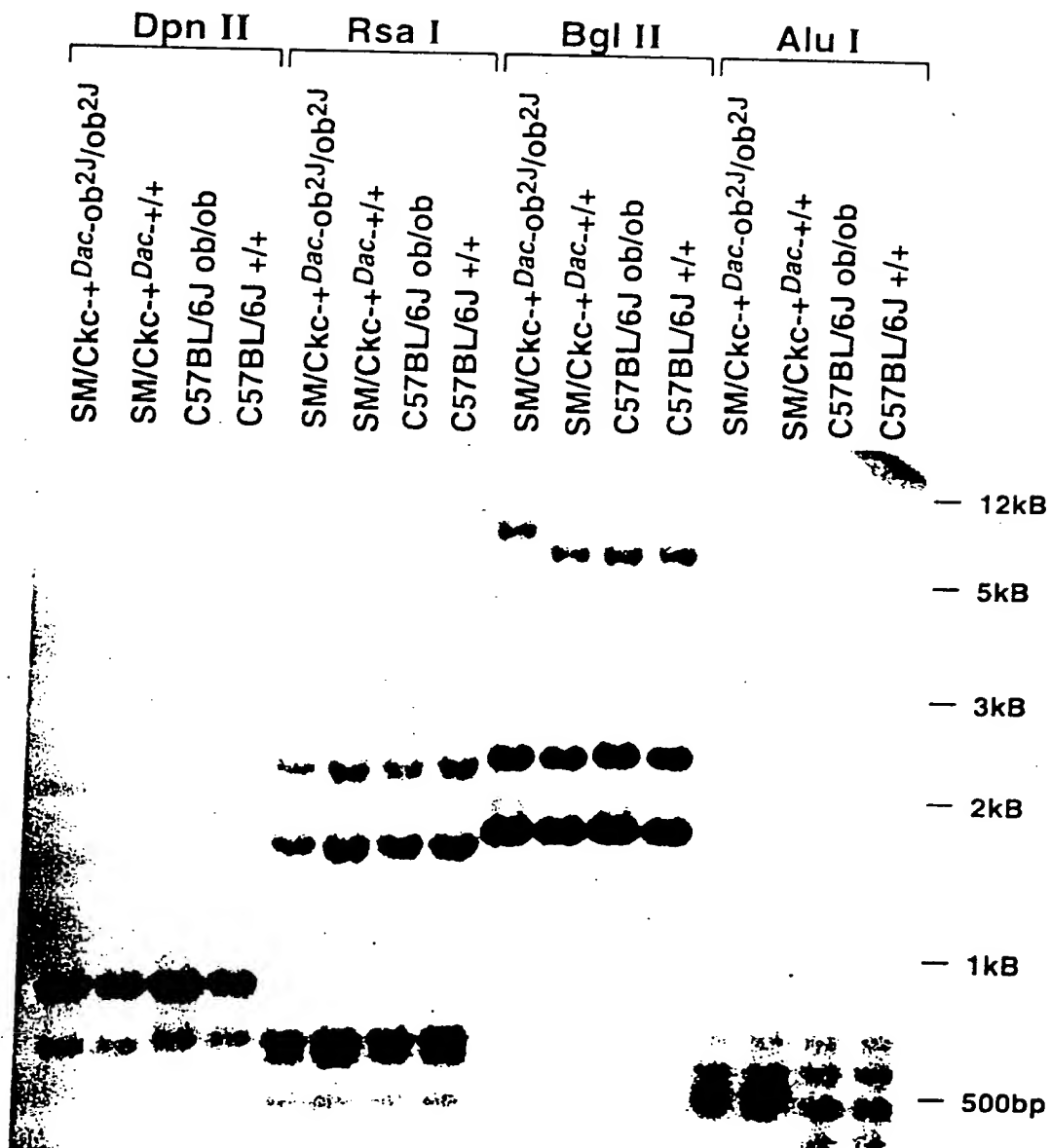


Figure 16

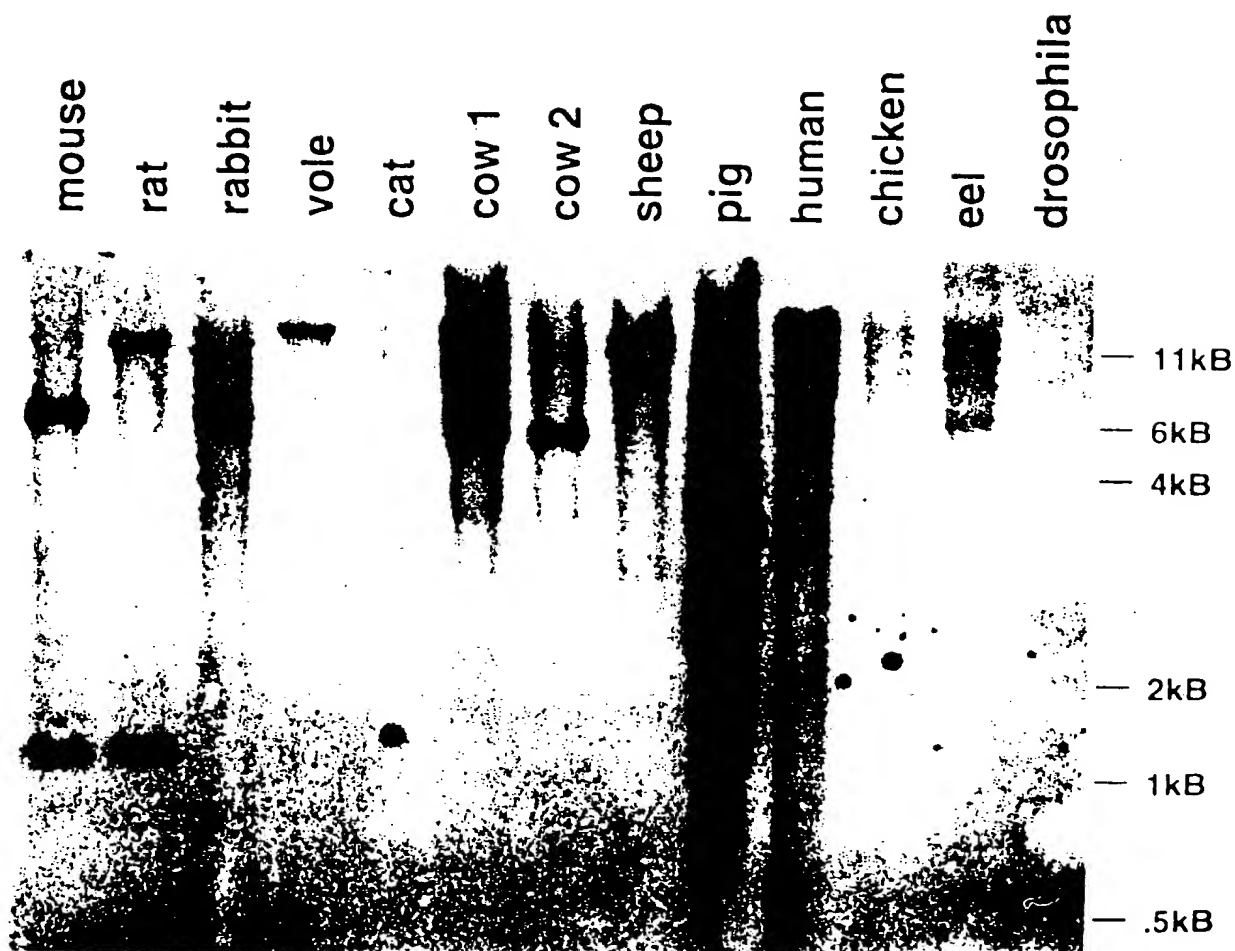


Figure 15B

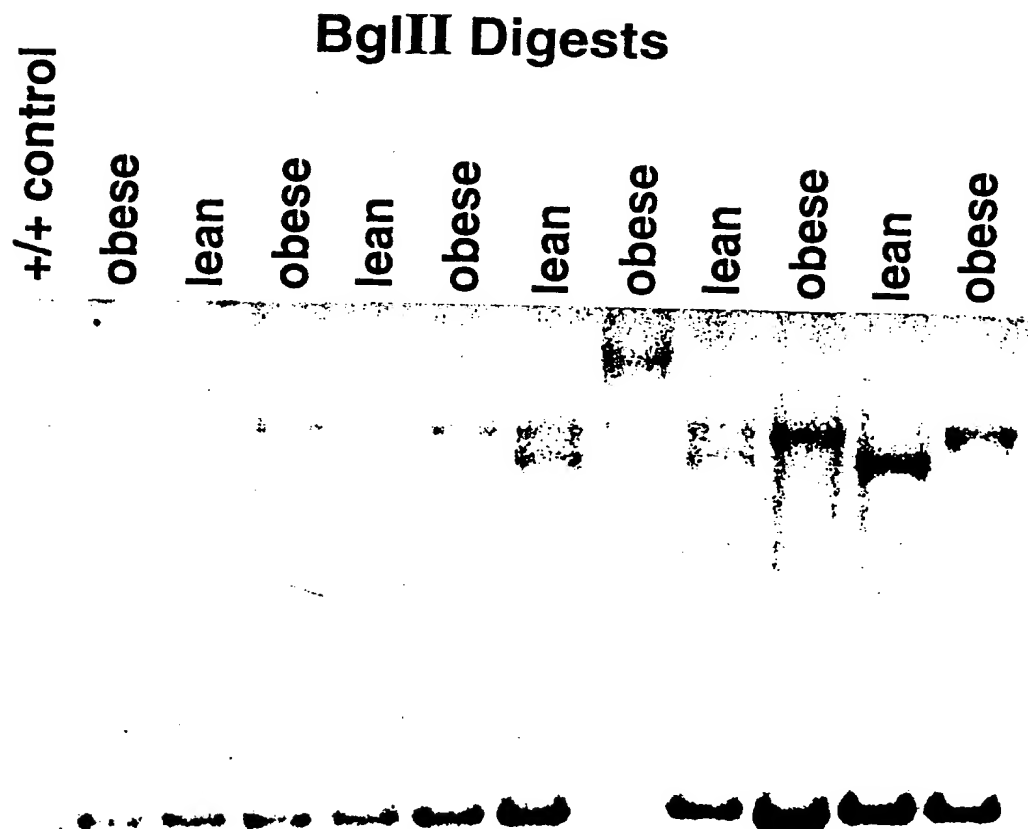


Figure 17

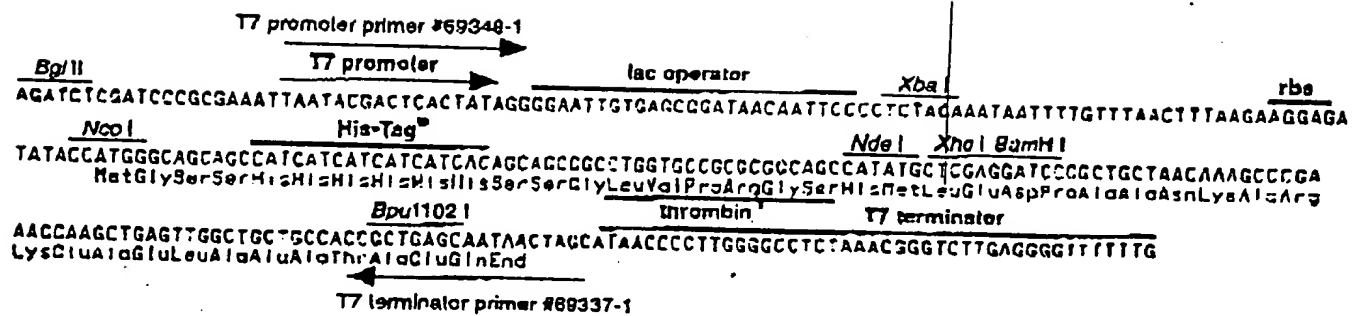
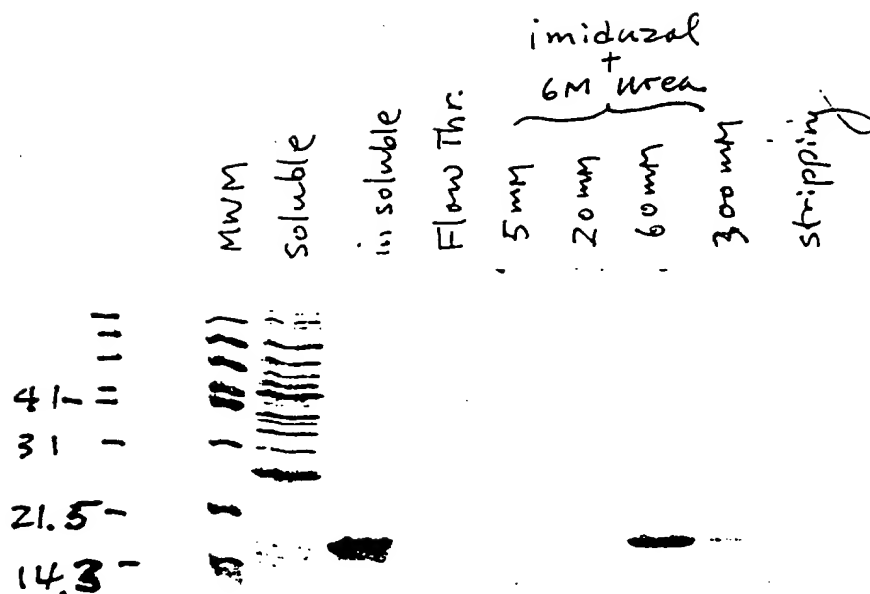


Figure 18 A



600-1-087 CIP (sh + 22 of 31)

Figure 18 B

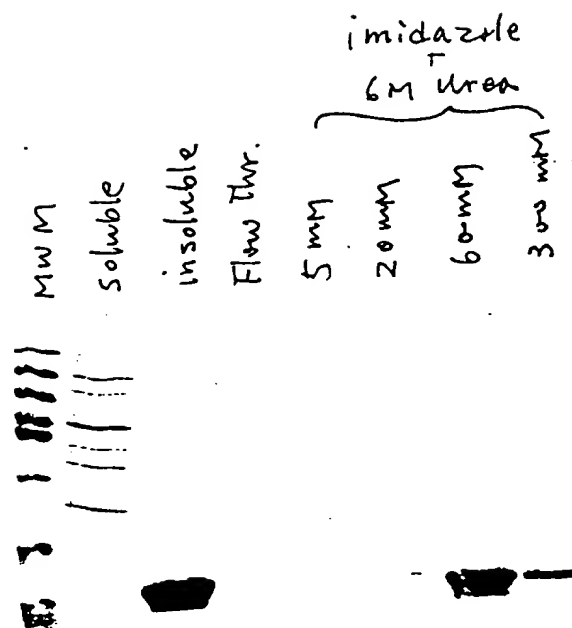


Figure 19A

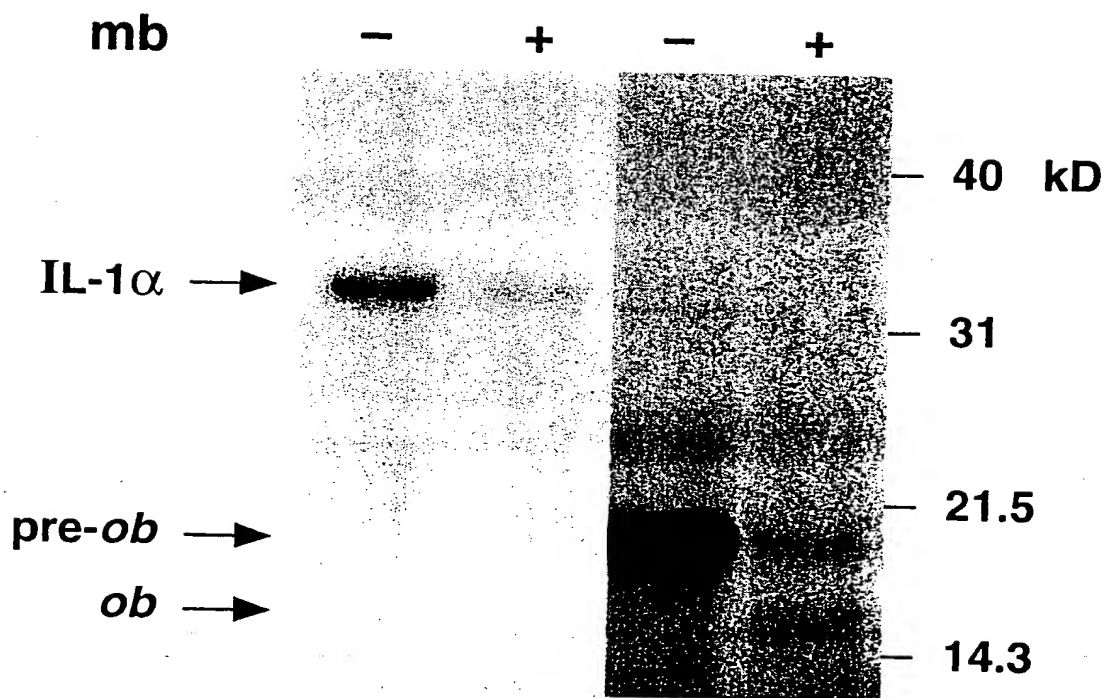


Figure 19B

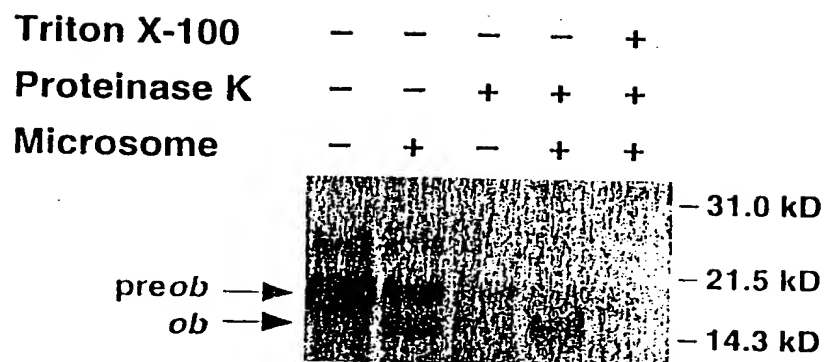


Figure 20A

10	20	30	40	50
GGTTGCAAGG	CCCAAGAAGC	CCATCCTGGG	AAGGAAAATG	CATTGGGGAA
60	70	80	90	100
CCCTGTGCGG	ATTCTGTGG	CTTGGCCCT	ATCTTTTCTA	TGTCCAAGCT
110	120	130	140	150
GTGCCCATCC	AAAAAGTCCA	AGATGACACC	AAAACCCTCA	TCAAGACAAT
160	170	180	190	200
TGTCACCAGG	ATCAATGACA	TTTACACAC	GSTAAGGAGA	GTATGCGGGG
210	220	230	240	250
ACAAAGTAGA	ACTGCAGCCA	GCCCAGCACT	GGCTCCTAGT	GGCACTGGAC
260	270	280	290	300
CCAGATAGTC	CAAGAAACAT	TTATTGAACG	CCTCCTGAAT	GCCAGGCACC
310	320	330	340	350
TACTGCAAGC	TGAGAAGGAT	TTTGGATAGC	ACAGGCCTCC	ACTCTTTCTG
360	370	380	390	400
GTGTTTCTT	NTGGCCCCCT	CTGCCCTGCTG	AGATNCCAGG	GGTTAGNGGT
410	420	430	440	450
TCTTAATTCC	TAAA	GAP OF SEQUENCE (~1.4 KB)		
460	470	480	490	500
GSTTCTTTCA	GGAAGAGGCC	ATGTAAGAGA	AAGGAATTGA	CCTAGGGAAA
510	520	530	540	550
ATTGGCCTGG	GAAGTGGAGG	GAACGGATGG	TGTGGGAAAA	GCAGGAATCT
560	570	580	590	600
CGGAGACCAG	CTTAGAGGCT	TGGCAGTCAC	CTGGGTGCAG	GANACAAGGG
610	620	630	640	650
CCTGAGCCAA	AGTGGTGAGG	GAGGTGGAA	GGAGACAGCC	CAGAGAATGA
660	670	680	690	700
CCCTCCATGC	CCACGGGGAA	GGCAGAGGGC	TCTGAGAGCG	ATTCCTCCCA
710	720	730	740	750
CATGCTGAGC	ACTTGTCTC	CCTCTTCCTC	CTNCATAGCA	GTCAGTCTCC
760	770	780	790	800
TCCAACAGA	AAGTACCGG	TTGGACTTC	ATTCCTGGGC	TCCACCCCAT
810	820	830	840	850
CCTGACCTTA	TCCAAGATGG	ACCAGACACT	GGCAGTCTAC	CAACAGATCC
860	870	880	890	900
TCACCAGTAT	GCCTTCCAGA	AACGTGATCC	AAATATCCAA	CGACCTGGAG

910	920	930	940	950
AACCTCCGGG	ATCTTCTTCA	CGTGCTGGCC	TTCTCTAAGA	GCTGCCACTT
960	970	980	990	1000
GCCCTGGGcC	ACTGGCCTGG	AGACCTTGA	CAGCCTGGGG	GGTGTCTCTGG
1010	1020	1030	1040	1050
AAGCTTCAGG	CTACTCCACA	GAGGTGGTGG	CCCTGAGCAG	GCTGCAGGGG
1060	1070	1080	1090	1100
TCTCTGCAGG	ACATGCTGTG	GCAGCTGGAC	CTCAGCCCTG	GGTGTCTGAGG
1110	1120	1130	1140	1150
CCTTGAAGGT	CACCTTCTCT	GCAAGGACTA	CGTTAAGGGA	AGGAACCTCTG
1160	1170	1180	1190	1200
GctTCCAGGT	ATCTCCAGGA	TTGAAGAGCA	TTGCATGGAC	ACCCCTTATC
1210	1220	1230	1240	1250
CAGGACTCTG	TCAATTTCCT	TGACTCCTCT	AAGCCACTCT	TCCAAAGG

Figure 21A

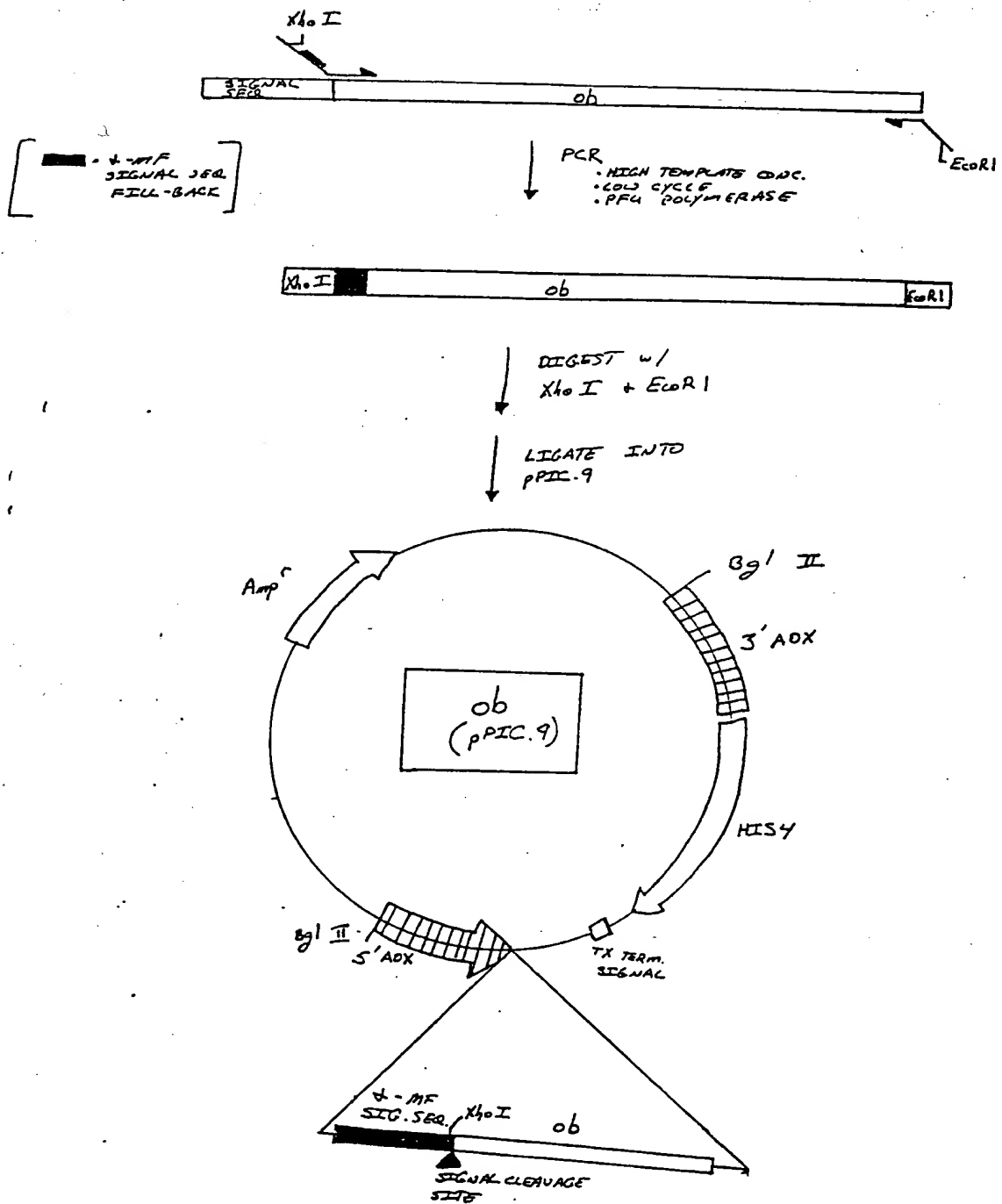


Figure 21 B

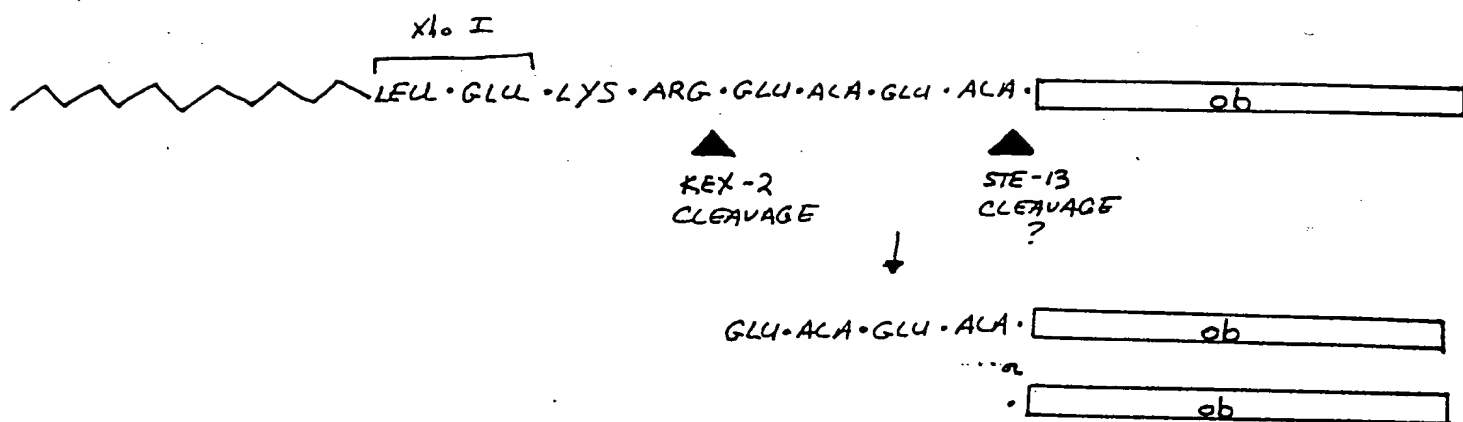


Figure 21 c

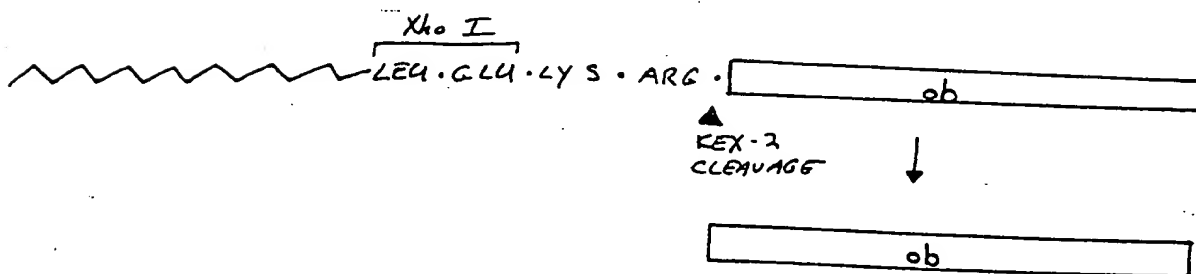


Figure 22A

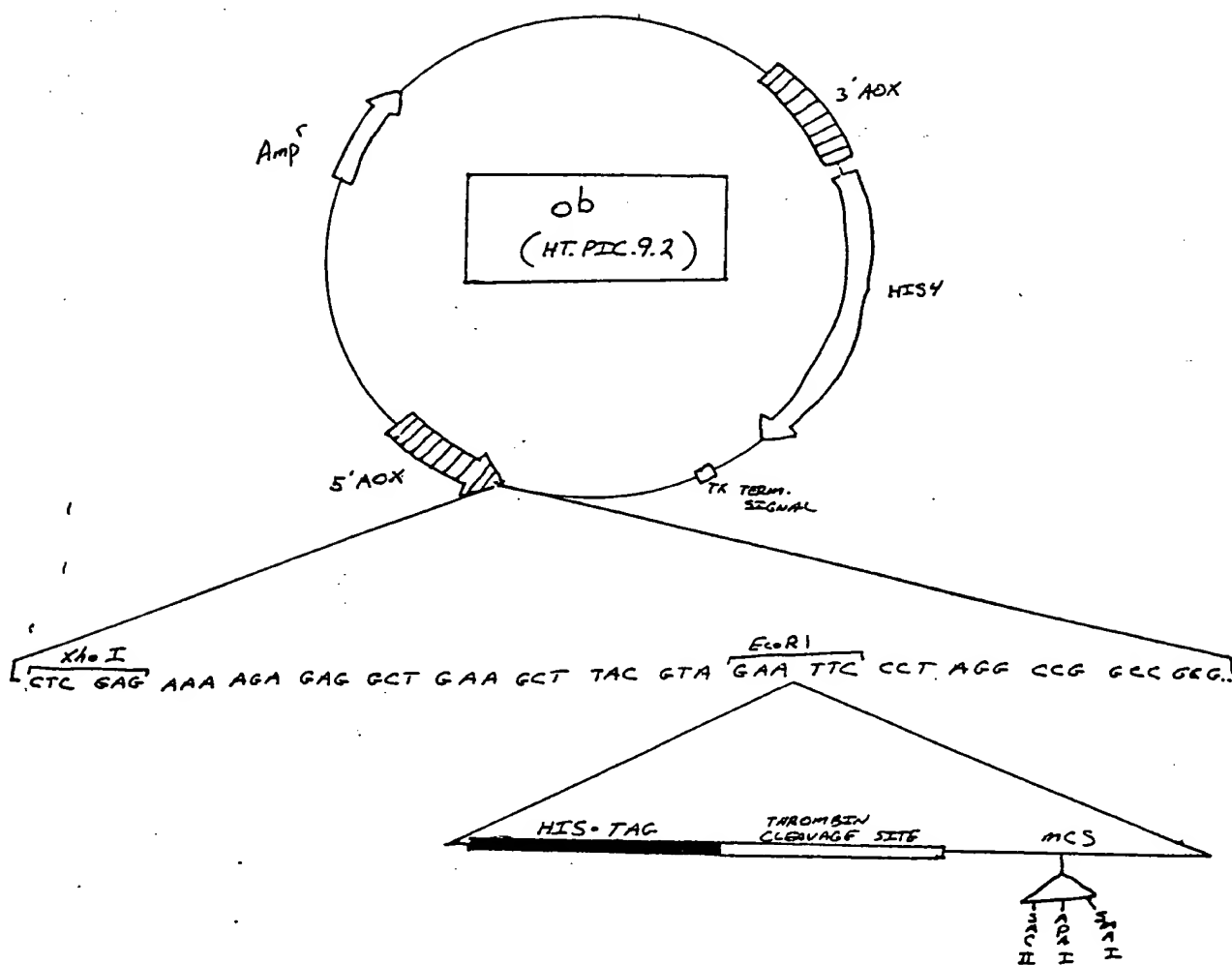


Figure 22B

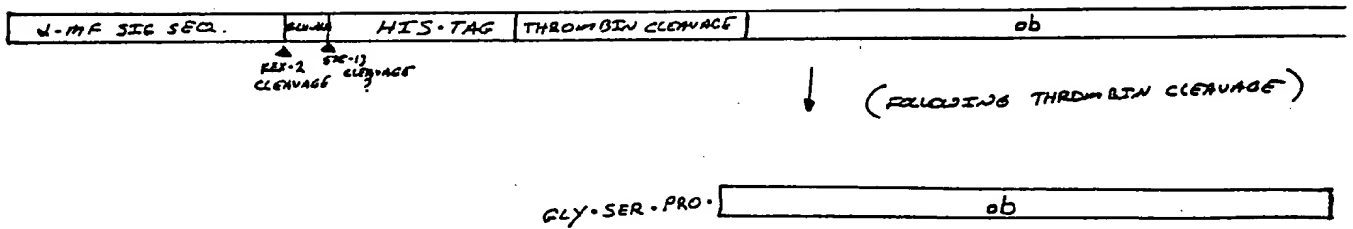


Figure 23A-

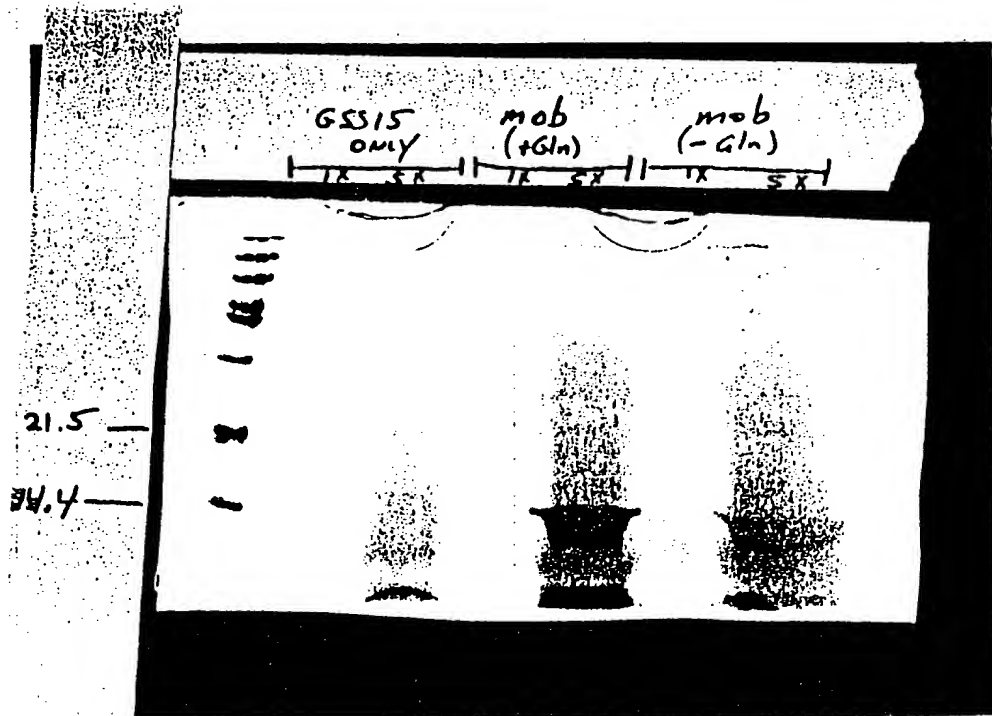


Figure 23B

